EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	847	370/438	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:50
L2	2945	395/155	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:51
L3	6249	709/220	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:51
L4	594	379/26	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:51
L5	29571	(batch$3 same ((register$3 generat$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:52
L6	2	5 and 1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:52
L7	1	2 and 1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:52
L8	32	3 and 1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:52
L9	0	4 and 1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:52

EAST Search History

L10	46	5 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:52
L11	85	5 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:52
L12	3	5 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:55
L13	13537566	@ad<"20030130" @rlad<"20030130"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:55
L14	44	10 and L13	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:55
L15	73	13 and 11	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:55
L16	3	12 and 13	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:55
S1	1	"20040151205"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 10:55
S2	13489592	@ad<"20030130" @rlad<"20030130"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 12:20

EAST Search History

S3	13	"5915092".pn. "6519571".pn. "6418131".pn. "6404761".pn. "6363411".pn. "6332163".pn. "6320867".pn. "6310873".pn. "6263016".pn. "6058104".pn. "6028848".pn. "6023724".pn. "6393481".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 13:29
S4	559	IDLC	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 12:32
S5	117	S4 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 13:11
S6	292	batch$3 near5 registration	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 13:03
S7	1	S6 and S4	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 12:34
S8	0	S7 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 12:34
S9	207	S6 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 12:37
S10	0	S9 and PLD	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 12:37
S11	111	S9 and network	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 12:37

EAST Search History

S12	25	S11 and "709"/$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 12:38
S13	16	S12 and subscriber$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 12:39
S14	31	S11 and subscriber$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 12:39
S15	34	S6 same server	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 13:03
S16	16	S15 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 13:04
S17	7	S16 and GUI	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 13:04
S18	3	S5 and batch$3 and registration	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 13:10
S19	3	"6215855".pn. "6385203".pn. "6636505".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:05
S20	4	S5 and batch$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 13:10
S21	8	S5 and PLD	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 13:11

EAST Search History

S22	3	S3 and batch	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 13:28
S23	9	S3 and register$7	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 14:05
S24	1	"20030145049"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/06/24 14:05
S25	80	("4674043" | "4937863" | "5023907" | "5537314" | "5579222" | "5615312" | "5710887" | "5740549" | "5745681" | "5752238" | "5765142" | "5799151" | "5819092" | "5826242" | "5848396" | "5873069" | "5890137" | "6014638" | "6236990").PN. OR ("6519571"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/24 14:06
S26	56	("5301320" | "5475819" | "5721908" | "5729689" | "5862331" | "5890133" | "5907704" | "5946697" | "5953707" | "5968121" | "6081837" | "6157940" | "6167446" | "6223209" | "6289382").PN. OR ("6438594").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/24 14:28
S27	560	IDLC	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:51
S28	9	IDLC and PLD	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:51
S29	13493186	@ad<"20030130" @rlad<"20030130"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:51
S30	13493186	S29	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:52

EAST Search History

S31	8	S28 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:53
S32	4683	register$7 same batch	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:53
S33	4862	register$7 same batch$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:53
S34	2791	S33 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:53
S35	1740	register$7 with batch$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:53
S36	1262	S35 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:55
S37	0	S36 and PSTNCC	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:55
S38	62	S36 and PSTN	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:57
S39	5115	batch$3.ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:57
S40	3552	S39 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:57

EAST Search History

S41	3552	S40 and batch$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:57
S42	228	batch same (generat$3 near5 account$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:58
S43	14	S41 and S42	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 12:59
S44	5349	batch$3 AND san AND NAS	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:00
S45	4	S40 AND S44	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:00
S46	56852	batch$3 and (SAN NAS)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:19
S47	114	S46 and S40	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:01
S48	7	S47 and (PSTN ISDN)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:22
S49	4741	batch$3 and (storage near5 network)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:19
S50	379	S49 and ((register$3 generat$3) near5 account$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:20

EAST Search History

S51	270	S50 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:20
S52	12	S49 and (batch$3 same ((register$3 generat$3) near5 account$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:21
S53	10	S52 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:21
S54	1207	S49 and (batch$3 same ((register$3 generat$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/11/17 12:52
S55	842	S54 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:21
S56	174	S55 and (PSTN ISDN)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:23
S57	174	S56 and Batch$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:36
S58	1153	batch$3 near5 account$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:36
S59	871	S58 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 14:39
S60	71	S59 and ISDN	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 13:37

EAST Search History

S61	0	S60 not S59	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 14:39
S62	800	S59 not S60	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 15:37
S63	0	S62 and 709/*.*.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 15:38
S64	22	S62 and "709"/$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 17:36
S65	46851	batch$3 and network	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 17:37
S66	13493186	@ad<"20030130" @rlad<"20030130"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 17:37
S67	33959	S65 and S66	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 17:37
S68	33959	S65 and S66	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 17:37
S69	2395	S68 and "709"/$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 17:39
S70	474	S69 and GUI	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 17:44

EAST Search History

S71	390	S70 and transfer$4	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/05 17:51
S72	1057	bulk with register$7	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 10:57
S73	13493186	@ad<"20030130" @rlad<"20030130"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 10:57
S74	646	S72 and S73	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 11:01
S75	8	S74 and GUI	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 10:59
S76	221	S74 and network	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:20
S77	1057	bulk with register$7	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:20
S78	13493186	@ad<"20030130" @rlad<"20030130"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:20
S79	646	S77 and S78	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:20
S80	221	S79 and network	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:20

EAST Search History

S81	33	S80 and (batch$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:27
S82	13782	(register$3 near15 subscriber)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:28
S83	25	S82 and ((Integrated near2 Digital near2 Loop) IDLC)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:36
S84	13493186	@ad<"20030130" @rlad<"20030130"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:29
S85	17	S83 and S84	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:32
S86	2	S85 and batch$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:33
S87	699	((Integrated near2 Digital near2 Loop) IDLC)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:36
S88	20	S87 and bulk$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:36
S89	20	S88 and "1"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:36
S90	13493186	S78	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:36

EAST Search History

S91	14	S88 and S78	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 13:37
S92	5520	batch$3 with (installation config$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:07
S93	4720	batch$3 near15 (installation config$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:07
S94	292	batch$3 near5 registration	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:07
S95	13	S93 and S94	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:07
S96	3184	S93 and S78	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:09
S97	7	S95 and S78	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:08
S98	1	S96 and IDLC	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:08
S99	235	S96 and ("370"/$.ccls. "709"/$.ccls. "370"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:40
S100	135	S99 and exchange	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:11

EAST Search History

S101	135	S99 and (exchange PLD)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:16
S102	0	S99 and (PLD)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:11
S103	1	"6363411".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:12
S104	1	"6519571".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:14
S105	1	"5915092".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:14
S106	35	S101 and PSTN	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:17
S107	719	PLD and batch$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:18
S108	1436	(PLD (program near5 loaded near5 data)) and batch$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:19
S109	754	(PLD (program near5 loaded near5 data) near5 file$1) and batch$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:20
S110	58	S109 and ("370"/$.ccls. "709"/$.ccls. "370"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:19

EAST Search History

S111	47	S110 and S78	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:19
S112	105	((PLD (program near5 load$2 near5 data)) near5 file$1) and batch$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:21
S113	96	S112 and S78	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:20
S114	10	((PLD (program near5 load$2 near5 data)) near5 file$1) and S92	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:22
S115	10	S114 and S78	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:22
S116	136	S99 and register$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:34
S117	136	S99 and register$7	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:38
S118	12	S99 and (batch$3 same register$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:35
S119	124	S117 not S118	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:38
S120	235	S99 and batch$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:41

EAST Search History

S121	226	S120 and network	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:41
S122	42	S120 and network and pstn	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 16:16
S123	42	S120 and pstn	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 14:42
S124	1	"20040136394" and register$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 16:19
S125	0	"20040136394" and (subscripber with register$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 16:20
S126	0	"20040136394" and (subscriber with register$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 16:20
S127	0	"20040136394" and (subscriber$1 with register$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 16:20
S128	0	"20040136394" and (subscriber$1 same register$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 16:22
S129	1	"20040136394" and (subscriber$1 and register$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 16:23
S130	0	"20040136394" and (subscriber$1 with register$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 16:23

EAST Search History

S131	1	"20040136394" and (subscriber$1 and register$7)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 16:24
S132	21	(batch$3 with registration).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 16:26
S133	11	S132 and S78	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/06 16:24
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1 Performance evaluation of a batch processing computer network under different processing strategies
John Cady, Ronald M. Sorli, Barry S. Thornton
March 1976 **Proceedings of the 1976 ACM SIGMETRICS conference on Computer performance modeling measurement and evaluation SIGMETRICS '76**
Publisher: ACM Press
Full text available: pdf(439.75 KB) Additional Information: full citation, abstract, references, index terms

In an Australian national batch-oriented computer network, processing strategies have been investigated, using simulation, to give guidelines for management of the work load and to provide direction for measurement of the performance of the system under actual conditions. The nature of the conflicting interactions between computer resource utilization and transmission line requirements has been studied to provide the basis for an economic analysis to determine the most cost-effective proces ...

2 Size-limited batch movement in product-form closed discrete-time queueing networks
Michael E. Woodward
June 1997 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '97**, Volume 25 Issue 1
Publisher: ACM Press
Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, references, citings, index terms

Existing models for product-form closed discrete-time queueing networks with batch movement of customers implicitly assume that batch sizes are unrestricted. In many practical modelling situations however, it is necessary to impose restrictions on the batch sizes, and this paper examines the repercushions of such restrictions on the product-form properties of the networks. It is shown that when batch sizes are restricted independently then, in general, the resulting networks cannot have a produc ...

3 Simulation of a network manufacturing process
Wayne J. Oates, Susan H. Antle
December 1981 **Proceedings of the 13th conference on Winter simulation - Volume 2 WSC '81**
Publisher: IEEE Press
Full text available: pdf(346.60 KB) Additional Information: full citation, abstract, references, index terms

A GPSS model was developed to simulate the flow of parts through the stages of a

network manufacturing process. The general network consists of M sequential stages, with a variable number of machines per stage. Parts can be processed on any of the Ni machines at stage i, and different types of parts may be mixed within a single machine. The simulator is used to evaluate scheduling policies proposed for each stage of the process. Scheduling policies to be considered are ...

4 QoS: The response time distribution of a discrete-time queue under a generalized batch arrival process

Sebastià Galmés, Ramon Puigjaner

October 2005 **Proceedings of the 3rd international IFIP/ACM Latin American conference on Networking LANC '05**

Publisher: ACM Press

Full text available: pdf(156.94 KB) Additional Information: full citation, abstract, references, index terms

In this paper we obtain the response time distribution of a single server, discrete-time queue, fed by an aggregate extension of the well-known on/off source. Essentially, at each active slot, we allow for a variable number of units of workload (packets, cells, messages, etc.) to enter the queue. So, the resulting input traffic is a batch-on/off process. The server is deterministic, with a service time corresponding to the transmission of a workload unit. We follow an exact analytical procedure, ...

Keywords: ATM, queueing theory, stochastic processes

5 Telecommunications: On improving the performance of simulation-based algorithms for average reward processes with application to network pricing

Enrique Campos-Náñez, Stephen D. Patek

December 2001 **Proceedings of the 33nd conference on Winter simulation WSC '01**

Publisher: IEEE Computer Society

Full text available: pdf(176.55 KB) Additional Information: full citation, abstract, references, index terms

We address performance issues associated with simulation-based algorithms for optimizing Markov reward processes. Specifically, we are concerned with algorithms that exploit the regenerative structure of the process in estimating the gradient of the objective function with the respect to control parameters. In many applications, states which initially have short expected return-times may eventually become infrequently visited as the control parameters are updated. As a result, unbiased updates t ...

6 ILP and heuristic techniques for system-level design on network processor architectures

Chris Ostler, Karam S. Chatha, Vijay Ramamurthi, Krishnan Srinivasan

September 2007 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 12 Issue 4

Publisher: ACM Press

Full text available: pdf(829.49 KB) Additional Information: full citation, abstract, references, index terms

Network processors incorporate several architectural features, including symmetric multiprocessing (SMP), block multithreading, and multiple memory elements, to support the high-performance requirements of current day applications. This article presents automated system-level design techniques for application development on such architectures. We propose integer linear programming formulations and heuristic techniques for process allocation and data mapping on SMP and block-multithreading-bas ...

Keywords: block multithreading, multiprocessor

7 Router software: Design considerations for network processor operating systems

Tilman Wolf, Ning Weng, Chia-Hui Tai

October 2005 **Proceedings of the 2005 symposium on Architecture for networking and communications systems ANCS '05**

Publisher: ACM Press

Full text available: pdf(198.33 KB) Additional Information: full citation, abstract, references, index terms

Network processors (NPs) promise a flexible, programmable packet processing infrastructure for network systems. To make full use of the capabilities of network processors, it is imperative to provide the ability to dynamically adapt to changing traffic patterns and to provide run-time support in the form of a network processor operating system. The differences to existing operating systems and the main challenges lie in the multiprocessor nature of NPs, their on-chip resources constraints, and t ...

Keywords: application mapping, application partitioning, network processors

8 System level mapping and simulation: An ILP formulation for system-level application mapping on network processor architectures

Chris Ostler, Karam S. Chatha

April 2007 **Proceedings of the conference on Design, automation and test in Europe DATE '07**

Publisher: EDA Consortium

Full text available: pdf(407.54 KB) Additional Information: full citation, abstract, references

Current day network processors incorporate several architectural features including symmetric multi-processing (SMP), block multi-threading, and multiple memory elements to support the high performance requirements of networking applications. We present an automated system-level design technique for application development on such architectures. The technique incorporates process transformations and block multi-threading aware data mapping to maximize the worst case throughput of the applicat ...

9 Queueing models and stability of message flows in distributed simulators of open queueing networks

Manish Gupta, Anurag Kumar, Rajeev Shorey

July 1996 **ACM SIGSIM Simulation Digest , Proceedings of the tenth workshop on Parallel and distributed simulation PADS '96**, Volume 26 Issue 1

Publisher: IEEE Computer Society, ACM Press

Full text available: pdf(782.64 KB) Additional Information: full citation, abstract, references, citings, index terms

Publisher Site

In this paper we study message flow processes in distributed simulators of open queueing networks. We develop and study queueing models for distributed simulators with maximum lookahead sequencing. We characterize the "external" arrival process, and the message feedback process in the simulator of a simple queueing network with feedback. We show that a certain "natural" modelling construct for the arrival process is exactly correct, whereas an ``obvious'' model for the feedback process is wron ...

Keywords: Distributed Simulation, Discrete Event Simulation, Queueing Networks, Stability, Maximum Lookahead

10 Steady-state simulation of queueing processes: survey of problems and solutions

Krzysztof Pawlikowski

June 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(4.75 MB) Additional Information: full citation, abstract, references, citings, index terms

For years computer-based stochastic simulation has been a commonly used tool in the performance evaluation of various systems. Unfortunately, the results of simulation studies quite often have little credibility, since they are presented without regard to their random nature and the need for proper statistical analysis of simulation output data. This paper discusses the main factors that can affect the accuracy of stochastic simulations designed to give insight into the steady-st ...

11 A Generalized Queueing Discipline for Product Form Network Solutions

Andrew S. Noetzel
October 1979 **Journal of the ACM (JACM)**, Volume 26 Issue 4
Publisher: ACM Press
Full text available: pdf(886.61 KB) Additional Information: full citation, references, citings, index terms

12 Efficient use of memory bandwidth to improve network processor throughput

Jahangir Hasan, Satish Chandra, T. N. Vijaykumar
May 2003 **ACM SIGARCH Computer Architecture News , Proceedings of the 30th annual international symposium on Computer architecture ISCA '03**, Volume 31 Issue 2
Publisher: ACM Press
Full text available: pdf(184.83 KB) Additional Information: full citation, abstract, references, citings

We consider the efficiency of packet buffers used in packet switches built using network processors (NPs). Packet buffers are typically implemented using DRAM, which provides plentiful buffering at a reasonable cost. The problem we address is that a typical NP workload may be unable to utilize the peak DRAM bandwidth. Since the bandwidth of the packet buffer is often the bottleneck in the performance of a shared-memory packet switch, inefficient use of available DRAM bandwidth further reduces th ...

13 Enhanced call: a paradigm for applications with dynamic client-membership and client-level binding in ATM networks

Pratyush Moghé, Izhak Rubin
August 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 4
Publisher: IEEE Press
Full text available: pdf(1.49 MB) Additional Information: full citation, references, index terms

14 A Queueing Network Model of MVS

Jeffrey P. Buzen
September 1978 **ACM Computing Surveys (CSUR)**, Volume 10 Issue 3
Publisher: ACM Press
Full text available: pdf(1.05 MB) Additional Information: full citation, references, citings, index terms

15 Runtime systems: Optimization and bottleneck analysis of network block I/O in commodity storage systems

Manolis Marazakis, Vassilis Papaefstathiou, Angelos Bilas
June 2007 **Proceedings of the 21st annual international conference on Supercomputing ICS '07**
Publisher: ACM Press

Full text available: pdf(442.79 KB) Additional Information: full citation, abstract, references, index terms

Building commodity networked storage systems is an important architectural trend; Commodity servers hosting a moderate number of consumer-grade disks and interconnected with a high-performance network are an attractive option for improving storage system scalability and cost-efficiency. However, such systems incur significant overheads and are not able to deliver to applications the available throughput. We examine in detail the sources of overheads in such systems, using a working prototype ...

Keywords: I/O performance optimization, RDMA, block-level I/O, commodity servers

16 The packer filter: an efficient mechanism for user-level network code

J. Mogul, R. Rashid, M. Accetta

November 1987 **ACM SIGOPS Operating Systems Review , Proceedings of the eleventh ACM Symposium on Operating systems principles SOSP '87**, Volume 21 Issue 5

Publisher: ACM Press

Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, references, citings, index terms

Code to implement network protocols can be either inside the kernel of an operating system or in user-level processes. Kernel-resident code is hard to develop, debug, and maintain, but user-level implementations typically incur significant overhead and perform poorly.The performance of user-level network code depends on the mechanism used to demultiplex received packets. Demultiplexing in a user-level process increases the rate of context switches and system calls, resulting in p ...

17 A novel analytical framework compounding statistical traffic modeling and aggregate-level service curve disciplines: network performance and efficiency implications

Alfio Lombardo, Giacomo Morabito, Giovanni Schembra

June 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 3

Publisher: IEEE Press

Full text available: pdf(521.28 KB) Additional Information: full citation, abstract, references, index terms

This paper demonstrates that higher network resource efficiency can be achieved by using resource management protocols which consider service disciplines based on service curves together with statistical traffic modeling. To this end, an appropriate analytical framework is introduced which allows calculation of the performance statistically guaranteed to any flow out of an aggregate. This feature enables the analytical framework to be applied to the elements of the core network where aggregates ...

Keywords: guaranteed service disciplines, performance evaluation, service curves, statistical traffic modeling

18 Analysis methodology: New simulation output analysis techniques: a batch means procedure for mean value estimation of processes exhibiting long range dependence

Andrés Suarez-González, José C. López-Ardao, Cándido Lopez-García, Miguel Rodríguez-Pérez, Manuel Fernández-Veiga, María Estrella Sousa-Vieira

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers WSC '02**

Publisher: Winter Simulation Conference

Full text available: pdf(174.81 KB) Additional Information: full citation, abstract, references, citings

Mean value estimation of processes exhibiting Long Range Dependence (LRD) requires a different approach than the techniques applied to those exhibiting Short Range Dependence (SRD), except for the independent replication method. We

describe a nonoverlapping batch means method able to deal with LRD processes, the LRD Batch Means method. This method exploits the behavior of Asymptotically Second-order Self-Similar processes: their aggregated processes become well a ...

19 MPEG-4 Video transmission over wireless networks: a link level performance study

Ji-An Zhao, Bo Li, Chi-Wah Kok, Ishfaq Ahmad
March 2004 **Wireless Networks**, Volume 10 Issue 2
Publisher: Kluwer Academic Publishers

Full text available: pdf(306.85 KB) Additional Information: full citation, abstract, references, citings, index terms, review

With the scalability and flexibility of the MPEG-4 and the emergence of the broadband wireless network, wireless multimedia services are foreseen to become deployed in the near future. Transporting MPEG-4 video over the broadband wireless network is expected to be an important component of many emerging multimedia applications. One of the critical issues for multimedia applications is to ensure that the quality-of-service (QoS) requirement to be maintained at an acceptable level. This is further ...

Keywords: DBMAP with marked transitions, DBMAP/PH/1 priority queue, HMM channel, PH-type distribution

20 The Operational Analysis of Queueing Network Models

Peter J. Denning, Jeffrey P. Buzen
September 1978 **ACM Computing Surveys (CSUR)**, Volume 10 Issue 3
Publisher: ACM Press

Full text available: pdf(2.79 MB) Additional Information: full citation, references, citings, index terms

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IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

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